

**DRAFT SCREENING SITE INVESTIGATION  
FOR THE  
SALL, GEORGE, METALS COMPANY  
WESTMORELAND STREET AND TULIP STREET  
PHILADELPHIA, PENNSYLVANIA  
ECKEL SITE NUMBER 317**

Prepared for

U.S. Environmental Protection Agency Region 3  
Hazardous Property Cleanup Division  
1650 Arch Street  
Philadelphia, PA 19103

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## **1.0 INTRODUCTION**

Under Remedial Action Contract (RAC) No. 68-S7-3002, Work Assignment No. 048-PAPA-03ZZ, U.S. Environmental Protection Agency (EPA) Region 3 tasked Tetra Tech, Inc. (Tt), to assist EPA Region 3 in the assessment of properties suspected to have been former lead smelter foundries. Tt subcontracted completion of this work assignment to Tetra Tech EM Inc. (Tetra Tech).

Former lead smelter sites nationwide were identified in an April 2001 article published in the American Journal of Public Health by Eckel, and others (Eckel study) (Reference [Ref.] 1). The majority of these lead smelters operated prior to 1964 and closed before the current environmental regulations were instituted. As part of the Eckel study, soil samples were collected from several of the identified former lead smelter properties. Results from the analysis of these soil samples indicated that concentrations of lead exceeded EPA's recommended screening level for lead in residential soils. The results of the Eckel study indicate that the air disposition of lead into soils from the former smelter operations may present an ongoing public health concern due to exposure of residential populations, especially children, located in the vicinity of these former lead smelters, to soils containing elevated concentrations of lead (Refs. 1, 2, and 3).

The Eckel study identified 77 properties that may have been formerly used as lead smelters within EPA Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia). EPA Region 3 is currently investigating these 77 properties. The objective of EPA's investigation of these properties is to (1) determine the potential for lead-contaminated soil to be present at the former lead smelter site or nearby properties (2) identify any populations that may be at risk to exposure to this soil, and (3) determine if soil sampling is warranted at any of these sites or nearby properties.

The following activities were completed as part of the initial screening investigation of each of these former lead smelter sites: (1) verify the former lead smelter address listed in the Eckel

study through historical Sanborn fire insurance maps, tax parcel information, and/or contacting local agencies, (2) determine if the site is listed in EPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database, (3) determine through census information and existing maps the number of schools, daycare centers or recreational parks that exist near the former lead smelter site, (4) determine the population residing within a 4-mile radius of the site, (5) conduct a windshield reconnaissance of the site and surrounding area to document the current land use, identify any exposed soil and verify the existence of any schools, daycare centers or parks in the immediate area, and (6) review all information acquired to determine if the collection and analysis of soil samples is warranted at the site or at any nearby property.

This report summarizes the findings of the tasks outlined above for the former lead smelter known as the Sall, George, Metals Company site located at Westmoreland Street and Tulip Street, Philadelphia, Pennsylvania, 19134. Each former smelter property was given a number in Eckel's study. The Eckel study number for this site is 317 (Ref. 1).

## **2.0 SITE LOCATION**

The former Sall, George, Metals Company facility was located at Westmoreland Street and Tulip Street, Philadelphia, Pennsylvania, 19134. The geographic coordinates of the former Sall, George, Metals Company facility are 39.990556° north latitude and 75.1025° west longitude on the Camden, New Jersey-Pennsylvania Quadrangle, 7.5 minute series, United States Geological Survey topographic map (see Appendix A, Figure 1). The site is not currently listed in EPA's CERCLIS database (Ref. 4). An aerial photograph of the vicinity of the former lead smelter site has been included in Appendix A, Figure 2. This aerial photograph reveals the exposed soils and any identified areas of potential concern such as schools, daycare centers, or parks located within a half-mile radius of the site.

### **3.0 SITE OBSERVATIONS**

On September 7, 2005, Tetra Tech completed a non-sampling windshield reconnaissance of the Sall, George, Metals Company site and surrounding area. A photographic record of the current site conditions is included in Appendix B. Figure 3, shows the current layout of the site and surrounding area as observed during Tetra Tech's site reconnaissance. The following observations were recorded:

- The exact location of the former metals company could not be identified during the site reconnaissance. The area in the immediate vicinity is characterized by a mix of commercial, industrial, and residential properties.
- An abandoned brick building is located on the northwest corner of the Westmoreland Street and Tulip Street intersection, Delaware Ribbon Manufacturing Company is located on the northeast corner of the intersection, East Coast Recycling, Inc is located on the southeast corner of the intersection and the parking lot for North East Hospital Nursing School is located on the in the southwest corner of the intersection.
- Residential row homes are located within one block surrounding the Westmoreland Street and Tulip Street intersection.
- No schools, daycare centers or parks were identified within the immediate vicinity of the intersection of Westmoreland and Tulip Street.
- Limited areas of exposed soil were identified in the immediate vicinity associated with small residential yards.

#### 4.0 POTENTIAL TARGETS

Potential targets identified that may be exposed to lead-contaminated soils remaining in the vicinity of the former Sall, George, Metals Company site include the nearby residential population. The population within a 4-mile radius of the site is summarized in the table below (Ref. 5).

**Population within a Four-mile Radius of the Site**

<b>Distance Ring (miles)</b>	<b>Population (number of persons)</b>
0.0 to 0.25	2,309
0.25 to 0.5	13,175
0.5 to 1.0	34,441
1.0 to 2.0	86,333
2.0 to 3.0	177,024
3.0 to 4.0	264,939

Source: U.S. Department of Commerce. Landview V Environmental Mapping Software based on the Bureau of Census 2000 Population Data. December 6, 2005.

No daycare centers were identified within one-quarter mile of the site. Three schools were identified within one-quarter mile of the site. Webster School and Masterbaum Technical School are approximately one-third mile north and west of the site, respectively. St. Adalbert School is located approximately one-half mile south site. A baseball field was identified approximately one-quarter mile west of the site.

#### 5.0 FINDINGS AND RECOMMENDATIONS

The site is located in a mixed residential, commercial, and industrial area of Philadelphia, Pennsylvania. Exposed soils were observed in the nearby vicinity of the property formerly used as a lead smelter. Residential properties with small yards are located within one-block of the former lead smelter; therefore, to determine if there is a threat to the residential population from

elevated levels of lead in soils, it is recommended that soil samples be collected from nearby residential yards and analyzed for lead levels.

## REFERENCES

1. Eckel, W.P., Rabinowitz, M.B., Foster, G.D. American Journal of Public Health. "Discovering Unrecognized Lead-Smelting Sites by Historical Methods". April 2001.
2. Pennsylvania Department of Health. Suspected Former Lead Smelter Sites: A Potential Risk Factor for Childhood Lead Poisoning. August 2004.
3. U.S. Environmental Protection Agency (EPA). Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12. July 14, 1994.
4. U.S. EPA. Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) database. On-Line Address: <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>
5. U.S. Census Bureau. State and County Quick Facts. Accessed On-Line on December 6, 2005. On-Line Address: [quickfacts.census.gov/qfd/states/42.html](http://quickfacts.census.gov/qfd/states/42.html).



## **Appendix A**

### **Figures**

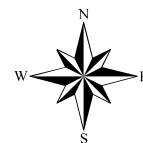






0 500 1,000  
 Feet  
 Scale in Feet

Sal George, Metals Co.  
 Westmoreland Street and Tulip Street  
 Philadelphia, Pennsylvania  
 Eckel Site No. 317



**Figure 2**  
 Aerial Photograph

Source: Modified from Digital Orthophoto (DOQQ) MrSID mosaic for Camden Quadrangle (NAPP III, 1997-2001)







0 100 200  
Feet  
Scale in Feet

Sal George, Metals Co.  
Westmoreland Street and Tulip Street  
Philadelphia, Pennsylvania  
Eckel Site No. 317



**Figure 3**  
Site Layout Map

Source: Modified from Philadelphia City Planning Commission (PCPC) Department - GIS Division, 2006.



**Appendix B**  
**Photographic Documentation**



## *Photographic Documentation*

**Site Name:** Sal, George, Metals Company –  
Eckel Number 317

**Prepared by:** Tetra Tech EM Inc.

**Photographer:** [REDACTED]

**Location:** Westmoreland and Tulip Streets, Philadelphia,  
Pennsylvania

### **Photograph No. 1**

**Photograph Date:**  
September 7, 2005

**Description:** The Delaware Ribbon Manufacturing company is located on the northeast corner of Westmoreland and Tulip Streets.



### **Photograph No. 2**

**Photograph Date:**  
September 7, 2005

**Description:** View of vacant industrial building located on the northwest corner of the Westmoreland and Tulip Street intersection.





## *Photographic Documentation*

**Site Name:** Sal, George, Metals Company –  
Eckel Number 317

**Prepared by:** Tetra Tech EM Inc.

**Photographer:** [REDACTED]

**Location:** Westmoreland and Tulip Streets, Philadelphia,  
Pennsylvania

### **Photograph No. 3**

**Photograph Date:**  
September 7, 2005

**Description:** The East Coast recycling facility is located on the southwest corner of the Tulip Street and Westmoreland Street intersection.

